



SWE-2224F

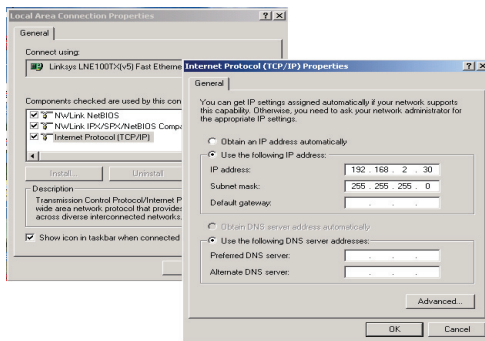
User's Manual

Web Smart Switch Configure

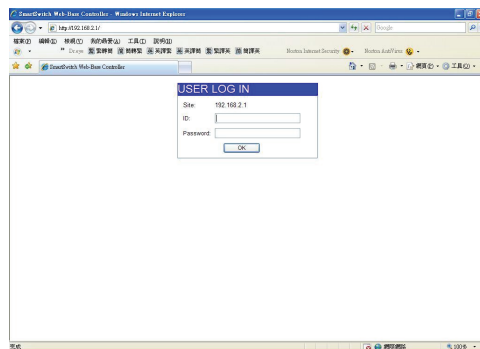
Please follow the steps to configure this Web Smart switch.

Step 1: Use a twisted pair cable to connect this switch to your PC.

Step 2: Set your PC's IP to 192.168.2.xx.



Step 3: Open the web browser (like IE...), and go to 192.168.2.1
Then you will see the login screen.

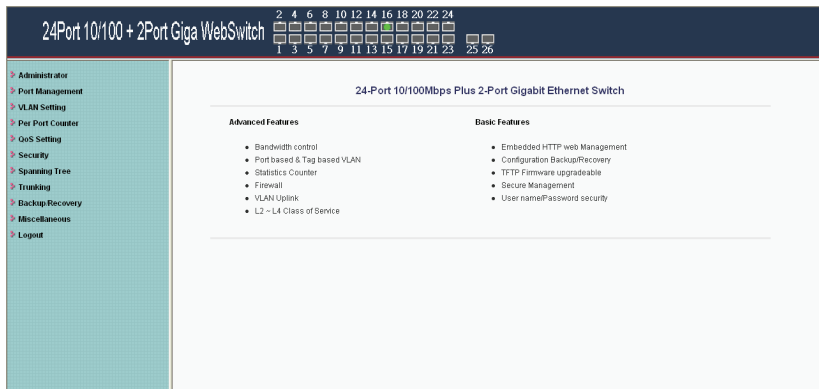


ID: admin

Password: admin

Step 4: After the authentication procedure, the home page shows up.
Select one of the configurations by clicking the icon.

- Administrator
- Port Management
- VLAN Setting
- Per Port Counter
- QoS Setting
- Security
- Spanning Tree
- Trunking
- Backup/Recovery
- Miscellaneous
- Logout



Administrator: Authentication Configuration

24Port 10/100 + 2Port Giga WebSwitch

2 4 6 8 10 12 14 16 18 20 22 24
1 3 5 7 9 11 13 15 17 19 21 23 25 26

- Administrator
 - Authentication Configuration
 - System IP Configuration
 - System Status
 - Load default setting
 - Firmware Update
 - Reboot Device
- Port Management
- VLAN Setting
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- Logout

Authentication Configuration

Setting	Value
Username	<input type="text" value="admin"/> max:15
Password	<input type="password" value="*****"/> max:15
Confirm	<input type="password" value="*****"/>

Update

Note:
Username & Password can only use "a-z","A-Z","0-9","_"," ","-",".","=".

1. Change the user name and the password.
2. Click “Update” to confirm the new change.

Now, you can use the new user name and the password.

Administrator: System IP Configuration

24Port 10/100 + 2Port Giga WebSwitch

2 4 6 8 10 12 14 16 18 20 22 24
1 3 5 7 9 11 13 15 17 19 21 23 25 26

Administrator

- Authentication Configuration
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System IP Configuration

Setting	Value
IP Address	[92] , [168] , [2] , [1]
Subnet Mask	[255] , [255] , [255] , [0]
Gateway	[92] , [168] , [2] , [254]
IP Configure	<input checked="" type="radio"/> Static <input type="radio"/> DHCP
<div>Update</div>	

1. Change the IP address: type the new IP address or select DHCP IP configuration.
2. Click “Update” to confirm the new change. Setting Process OK!!” will be shown on the screen.

Now, the setting of “System IP Configuration” is finished.

Administrator: System Status

24Port 10/100 + 2Port Giga WebSwitch

2 4 6 8 10 12 14 16 18 20 22 24
1 3 5 7 9 11 13 15 17 19 21 23 25 26

Administrator

- Authentication Configuration
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System Status

MAC Address	10:f0:13:f0:18:26	
Number of Ports	24+2	
Comment	<input type="text" value="switch"/>	MAX: 15
Contact	<input type="text" value="XEngine"/>	MAX: 15
Location	<input type="text" value="Zhangwei"/>	MAX: 15
System Version	IP1826_WebCtrl_IP210SDK2_L3.4_v104	
<input type="button" value="Update"/>		

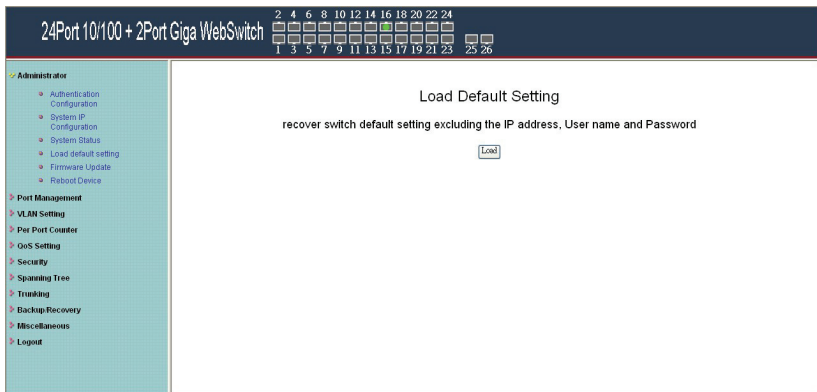
Note:
Comment name only can use "a-z","A-Z","_","-",".","/","0-9"

MAC address and system version will be shown on the screen.

1. Change the new comment of this switch by typing the new comment.
2. Click “Update” to confirm the new change.

Now, the setting of “System Status” is finished.

Administrator: Load Default Setting



1. Click “Load” to back to the factory default setting.

****Note:** Recover switch default setting excluding the IP address, User name and Password.

Now, the default is loaded.

Administrator: Firmware Update

24Port 10/100 + 2Port Giga WebSwitch

24

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22

24

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13

15

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19

21

23

25

26

Administrator

Authentication

Configuration

System IP

Configuration

System Status

Load default setting

Firmware Update

Reboot Device

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Firmware Update

Please input the password to continue the Firmware Update process.

Password

ReConfirm

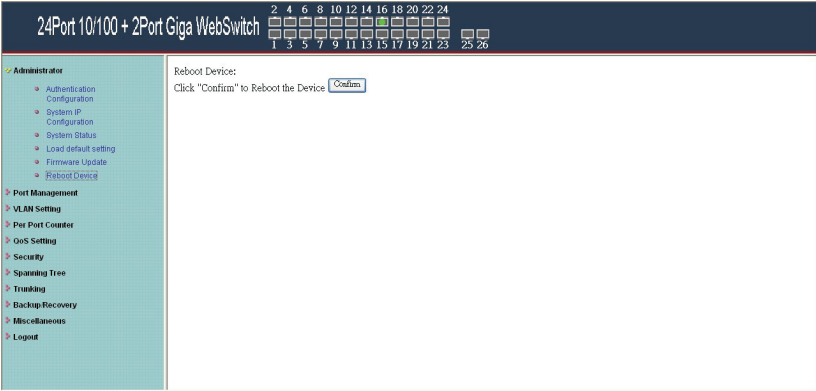
Update

Notice:
After clicking the "UPDATE" button, IF the firmware update webpage is not redirected correctly or is shown as "Webpage not found".
Please connect to <http://92.168.2.1>

Follow the instruction on the screen to update the new firmware.

Please contact with your sales agents to get the latest firmware information.

Administrator: Reboot Device



1. Click “Confirm” to reboot the device.
- Now, the setting of “Reboot Device” is finished.

Port Management: Port Configuration

24Port 10/100 + 2Port Giga WebSwitch

Administrator

Port Management

- Port Configuration
- Port Mirroring
- Bandwidth Control
- Broadcast Storm Control
- PDE

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Miscellaneous

Logout

Port Configuration

Function	Tx/Rx Ability	Auto-Negotiation	Speed	Duplex	Pause	Backpressure	Addr. Learning
Select Port No.	----	----	----	----	----	----	----
	01 <input type="checkbox"/> 02 <input type="checkbox"/> 03 <input type="checkbox"/> 04 <input type="checkbox"/> 05 <input type="checkbox"/> 06 <input type="checkbox"/> 07 <input type="checkbox"/> 08 <input type="checkbox"/> 09 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 <input type="checkbox"/> 25 <input type="checkbox"/> 26 <input type="checkbox"/>						
<div>Update</div>							

Port	Current Status				Setting Status						
	Link	Speed	Duplex	FlowCtrl	Tx/Rx Ability	Auto-Mego	Speed	Duplex	Pause	Backpressure	Addr. Learning
1	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
2	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
3	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
4	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
5	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
6	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
7	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
8	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
9	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
10	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
11	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
12	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
13	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
14	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
15	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
16		100M	FULL	ON	ON	AUTO	100M	FULL	ON	ON	ON
17	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
18	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
19	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
20	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
21	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
22	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
23	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
24	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
25	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF
26	---	---	---	---	ON	AUTO	100M	FULL	ON	ON	OFF

Select the “Port No.” - configure the mode below:

1. Tx Cap Ability- enable/disable for the selected port.
2. Auto-Negotiation- enable/disable Auto-Negotiation.
3. Speed - 10M, 100M or 1000M mode for the selected port.
4. Duplex - Full or Half-Duplex mode for the selected port.
5. Pause - enable/disable for the selected port.
6. Backpressure - enable/disable for the selected port.
7. Addr. Learning - enable/disable for the selected port.

After press the “Update”, the setting of “Port Configuration” is finished.

Port Management: Port Mirroring

24Port 10/100 + 2Port Giga WebSwitch

Administrator

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- Logout

Port Mirroring

Dest Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Monitored Packets	Disable														
Source Port	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<div>Update</div>															
Multi to Multi Traffic function															

Port Mirroring is used to mirror traffic, RX, TX or TX&RX, from Source port to Destination port for analysis.

1. Select the Destination port: you can choose port 1 to port 26.
2. Select the Source port: by clicking the checking box of the port.
3. Click “Update” to save the setting.

Now, the setting of “Port Mirroring” is finished.

Port Management: Bandwidth Control

24Port 10/100 + 2Port Giga WebSwitch

24

2 4 6 8 10 12 14 16 18 20 22 24

1 3 5 7 9 11 13 15 17 19 21 23 25 26

➤ Administrator

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Bandwidth Control

Port No.

01

Tx Rate

(0-255)

(0 Full Speed)

Rx Rate

(0-255)

(0 Full Speed)

Speed Base

Low

Low:
(1320kbps Tx/Rx bandwidth resolution for port 1 ~ port 26.
Actual Tx/Rx bandwidth=Rate value x 32 kbps. The rate value is 1~255.
High:
(1256kbps Tx/Rx bandwidth resolution for port 1 ~ port 24.
Actual Tx/Rx bandwidth=Rate value x 256kbps. The rate value is 1~255.
When link speed is 10MB. The rate value is 1~39.
(2)the bandwidth resolution is 2048kbps for port 25, port 26.
Actual Tx/Rx bandwidth=Rate value x 2048kbps. The rate value is 1~255.
When link speed is 10MB. The rate value is 1~4.
When link speed is 100MB. The rate value is 1~48.

Update

LoadDefault

If the link speed of selected port is lower than the rate that you setting, this system will use the value of link speed as your setting rate.
If the rate field is shown in red text, it means the link speed is lower than the using bandwidth.

Port No.	Tx Rate	Rx Rate	Link Speed	Port No.	Tx Rate	Rx Rate	Link Speed
1	Full Speed	Full Speed	---	14	Full Speed	Full Speed	---
2	Full Speed	Full Speed	---	15	Full Speed	Full Speed	---
3	Full Speed	Full Speed	---	16	Full Speed	Full Speed	100M
4	Full Speed	Full Speed	---	17	Full Speed	Full Speed	---
5	Full Speed	Full Speed	---	18	Full Speed	Full Speed	---
6	Full Speed	Full Speed	---	19	Full Speed	Full Speed	---
7	Full Speed	Full Speed	---	20	Full Speed	Full Speed	---
8	Full Speed	Full Speed	---	21	Full Speed	Full Speed	---
9	Full Speed	Full Speed	---	22	Full Speed	Full Speed	---
10	Full Speed	Full Speed	---	23	Full Speed	Full Speed	---
11	Full Speed	Full Speed	---	24	Full Speed	Full Speed	---
12	Full Speed	Full Speed	---	25	Full Speed	Full Speed	---
13	Full Speed	Full Speed	---	26	Full Speed	Full Speed	---

1. Select the “Port No.”: you can choose port 1 to port 26.
2. “TX Rate Value”: set the transmission rate of the selected port. (0:Full speed; 1~255:Specified bandwidth.)
3. “RX Rate Value”: set the receiving rate of the selected port. (0: Full speed; 1~255: Specified bandwidth.)
4. “Resolution” : Low: 32 kbps / High: 556 kbps
5. Click “Update” to confirm the setting or “LoadDefault”.
Now, the setting of “Bandwidth Control” is finished.

Port Management: Broadcast Storm Control

24Port 10/100 + 2Port Giga WebSwitch

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Broadcast Storm Control

Threshold

63

1-63

Enable Port	1	2	3	4	5	6	7	8	9	10	11	12	13
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	14	15	16	17	18	19	20	21	22	23	24	25	26
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Update

This value indicates the number of broadcast packet which is allowed to enter each port in one time unit. One time unit is 50us for 10Gbit speed, 600 us for 100Mbps speed and 5000us for 10Mbps speed

1. “Threshold” - Set the threshold from 1~63.
2. “Enable Port” - per port to define the status of broadcast packets.
3. Click “Update” to confirm the setting.

Now, the setting of “Broadcast Storm Control” is finished.

Port Management: PoE Configuration

24Port 10/100 + 2Port Giga WebSwitch

2 4 6 8 10 12 14 16 18 20 22 24

1 3 5 7 9 11 13 15 17 19 21 23

25 26

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POE Configuration

Port	1	2	3	4	5	6	7	8
Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PSE Current	No Load	No Load	No Load	No Load	No Load	No Load	No Load	No Load
Minimum Output Power	---	---	---	---	---	---	---	---
POE Class	---	---	---	---	---	---	---	---
Port	09	10	11	12	13	14	15	16
Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PSE Current	No Load	No Load	No Load	No Load	No Load	No Load	No Load	No Load
Minimum Output Power	---	---	---	---	---	---	---	---
POE Class	---	---	---	---	---	---	---	---
Port	17	18	19	20	21	22	23	24
Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
PSE Current	No Load	No Load	No Load	No Load	No Load	No Load	No Load	No Load
Minimum Output Power	---	---	---	---	---	---	---	---
POE Class	---	---	---	---	---	---	---	---

Update

Update: Update the power control function.

Enable ☒ Power On

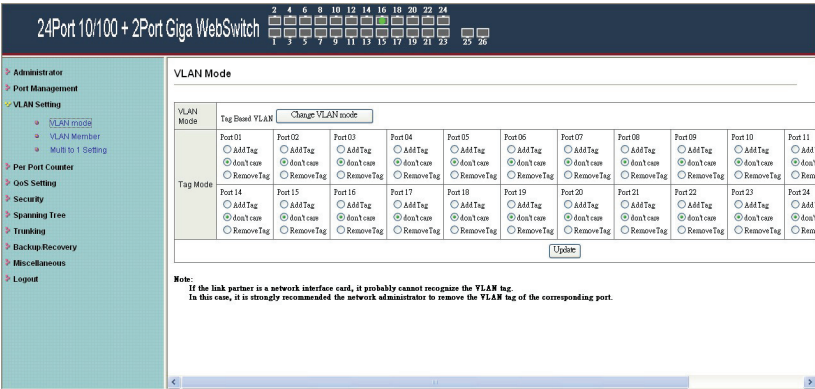
Enable ☐ Power Off

Remote access and monitor the attached PD (Powered Device) status by using Enable/Disable function.

- Enable:** POE of the port is able to supply power to the attached PD (Powered Device)
- PSE Current & Minimum Output Power:** The status of the port current and minimum output power.
- POE class:** each POE port will detect the class of the attached PD (Powered Device)
- Click “Update” to confirm and finish the setting.

Now, the setting of “PoE Configuration” is finished.

VLAN Setting: VLAN Mode



There are two VLAN modes: Port Based VLAN and Tag Based VLAN.

Click “Change VLAN mode” to select the mode.

****If the Port Based VLAN function is enabled, Tag Based VLAN and Multi to 1 setting function will be disabled automatically.**

Now, the setting of “VLAN Mode” is finished.

VLAN Setting: VLAN Member Setting (Tag Based)

24Port 10/100 + 2Port Giga WebSwitch

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VLAN Member Setting (Tag Based)

VLAN No. VID

Dest PORT	01	02	03	04	05	06	07	08	09	10	11	12	13
select	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dest PORT	14	15	16	17	18	19	20	21	22	23	24	25	26
select	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Index

Port/ Index	01	02	03	04	05	06	07	08	09	10	11	12	13
Port/ Index	01	02	03	04	05	06	07	08	09	10	11	12	13
Port/ Index	14	15	16	17	18	19	20	21	22	23	24	25	26
Port/ Index	14	15	16	17	18	19	20	21	22	23	24	25	26

Example 1:
If the incoming packet does not contain a VID,
[P1856] adds a VLAN index to the incoming packet.
The following table shows two cases.
(a) One port maps to one VID, (b) Multi ports map to one VID.

You can select a port group.

1. Click the port numbers: which you want to put them into the selected VLAN group.
2. Click “Update” to confirm and finish the setting.
3. Click “LoadDefault” to back to the original factory setting.

Now, the setting of “VLAN Member” is finished.

VLAN Setting: Multi to 1 Setting

24Port 10/100 + 2Port Giga WebSwitch

1

2

4

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26

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Multi to 1 Setting

Destination Profile:

01 ▾

Current Setting

Port:

	01	02	03	04	05	06	07	08	09	10	11	12
Disable Port	01	02	03	04	05	06	07	08	09	10	11	12
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	13	14	15	16	17	18	19	20	21	22	23	24
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(Note: "Disabled port" defines the switch physical port which is disabled.

1.A example for Multi-to-1 structure

Ports
**Destination Port/
Current Setting**

VLAN Groups

1

2

⋮

⋮

⋮

24

2 The original setting of the VLAN Group will be cleared and replaced by this special structure if you enable this function.

On the other hand, if you set the VLAN Group again, this special structure will be cleared and replaced by your current setting.

3 This configuration is port base VLAN only.

This is a special design for easily setting the switch VLAN into “VLAN per Port”.

1. Choose “Destination Port No”.
2. Choose “Disable Port”
3. “Disable Port” – choose the port which you don’t want to use
4. Click “Update” to confirm and finish the setting.

After this setting, all ports can only connect to destination ports.

Per Port Counter: Counter Category

24Port 10/100 + 2Port Giga WebSwitch

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21

23

25

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Administrator

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Port Counter

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Counter Category

Counter Mode Selection: Transmit Packet & Receive Packet

Port	Transmit Packet	Receive Packet
01	0	0
02	0	0
03	0	0
04	0	0
05	0	0
06	0	0
07	0	0
08	0	0
09	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	12968	18777
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	0	0
26	0	0

Refresh

You can read the transmitting and receiving packet of the connecting port.

Click “Refresh” or “Clear” the data.

QoS Setting: Priority Mode

24Port 10/100 + 2Port Giga WebSwitch

➤ Administrator

➤ Port Management

➤ VLAN Setting

➤ Per Port Counter

➤ QoS Setting

- **Priority Mode**
- Port 802.1p /PQDS based
- TCP/UDP Port Based

➤ Security

➤ Spanning Tree

➤ Trunking

➤ Backup/Recovery

➤ Miscellaneous

➤ Logout

Priority Mode

Priority Mode

Mode	<input checked="" type="radio"/> First-In-First-Out
	<input type="radio"/> All-High-before-Low
	<input type="radio"/> Weight-Round-Robin Low weight <input type="text" value="0"/> High weight <input type="text" value="0"/>

Update

Note: When the queue weight is set to "0", it will be treated as "1".
The "low weight" and "high weight" means the ratio of the packet in the transmit queue. For example,
if "low weight" and "high weight" are set to "3" and "6", the ratio of the transmit packet for the low priority to high priority is 3/6.

There are three Priority Modes to select.

1. First-in-First-Out- the first receiving packet will be firstly transmitted.
2. All-High-before-Low – All packets will be assigned to either Q2 (high) priority queue or Q1 (low) priority queue.
3. Weight-Round-Robin- set the ratio of the transmitting packet for the low priority to high priority.
4. Click “Update” to confirm and finish the setting.

QoS Setting: Class of Service

24Port 10/100 + 2Port Giga WebSwitch

2 4 6 8 10 12 14 16 18 20 22 24

1 3 5 7 9 11 13 15 17 19 21 23 25 26

- Administrator
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- Backup/Recovery
- Miscellaneous
- Logout

Class of Service Configuration

☒ =Enable High Priority

Port No/Mode	Port Base	VLAN Tag	IP / DS	Port No/Mode	Port Base	VLAN Tag	IP / DS
1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	24	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Update

As long as any of three COS schemes(021p/IP TOS/DS or Port Base) is mapped to "High", the data packet will be treated as the high priority.

You can set QoS mode of per port by different bases.

24Port 10/100 + 2Port Giga WebSwitch

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Administrator

Port Management

VLAN Setting

Per Port Counter

QoS Setting

Security

Spanning Tree

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Backup/Recovery

Miscellaneous

Logout

Class of Service Configuration

Protocol	Option
FTP(20,21)	F1-F0
SSH(22)	F1-F0
TELNET(23)	F1-F0
SMTP(25)	F1-F0
DNS(53)	F1-F0
TFTP(69)	F1-F0
HTTP(80,8080)	F1-F0
POP3(110)	F1-F0
NEWS(119)	F1-F0
SNTP(123)	F1-F0
NatBROS(137-139)	F1-F0
IMAP(143,220)	F1-F0
SNMP(161,162)	F1-F0
HTTP(443)	F1-F0
MSN(1863)	F1-F0
XRD_RDP(3389)	F1-F0

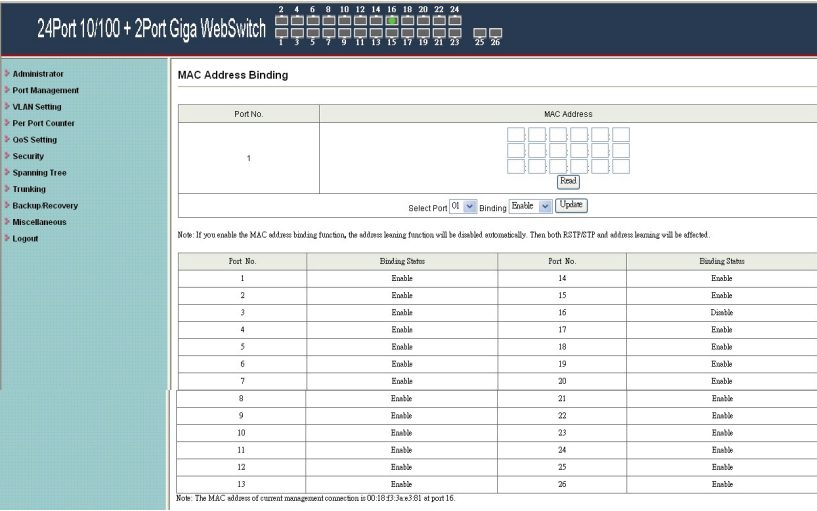
QQ(4000,8000)	R-FIFO ▾			
ICQ(5190)	R-FIFO ▾			
Yahoo(5050)	R-FIFO ▾			
BOOTP_DHCP(67,68)	Low ▾			
User_Define_a	R-FIFO ▾			
User_Define_b	R-FIFO ▾			
User_Define_c	R-FIFO ▾			
User_Define_d	R-FIFO ▾			
User_Define Port number (1-65535) Mask(0-255)	User_Define_a Port <input type="text"/> Mask(0-255) <input type="text"/>	User_Define_b Port <input type="text"/> Mask(0-255) <input type="text"/>	User_Define_c Port <input type="text"/> Mask(0-255) <input type="text"/>	User_Define_d Port <input type="text"/> Mask(0-255) <input type="text"/>
<p>Note:The mask defines which bit is ignored within the IP address bit 0 - bit 7. For example, UDP/TCP port = 65535 and mask = 5, this means 65530, 65531, 65534 and 65535 are all taken into account. UDP/TCP port = 65535 and mask = 0, this means only 65535 is taken into account.</p> <p>TCP/UDP port CoS function [Not Overwrite] [x]</p> <p>Note:When the "override" item is selected, the Port_based, Tsig_based, IP_TOS_based, CoS listed above will be ignored.</p>				
<input type="button" value="Update"/>				
<p>The Class of Service for TCP/UDP port number allows the network administrator to assign the specific application to a priority queue. F-I-F-O: The incoming packet will be forwarded in first-in-first-out scheme. Discard: The incoming packet will be discarded at the source port. High: The incoming packet will be forwarded with the high priority. Low: The incoming packet will be forwarded with the Low priority.</p>				

Base on different protocol, you can choose four different types of Class of Service for each TCP/UDP port number -First-in-First-out, Discard, High Priority or Low Priority to control the incoming packet.

Click “Update” to confirm and finish the setting.

Now, the setting of “Class of Service” is finished.

Security: MAC Address Filter



Set special MAC address to activate on the selected port

1. Choose “Select Port” – port 1~26
2. Binding– Enable: allow the packet with the specified source MAC address to enter this port.
3. Click “Update” to confirm and finish the setting.

Now, the setting of “MAC Address Filter” is finished.

Security: TCP_UDP Filter Configuration

24Port 10/100 + 2Port Giga WebSwitch

2 4 6 8 10 12 14 16 18 20 22 24
25 26

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TCP_UDP Filter Configuration

Function Enable: Disable

Port Filtering Rule: negative

Rule:
 (1) The outgoing packet with selected protocol will be either forwarded or dropped at secure WAN port as the figure shown below.
 (2) "negative" means the selected protocol will be dropped and other protocols will be forwarded.
 "positive" means the selected protocol will be forwarded and other protocols will be dropped.

Protocol	<input type="checkbox"/> FTP (21)	<input type="checkbox"/> SSH (22)	<input type="checkbox"/> TELNET (23)	<input type="checkbox"/> SMTP (25)	<input type="checkbox"/> DNS (53)	<input type="checkbox"/> TFTP (69)	<input type="checkbox"/> HTTP (80/8080)	<input type="checkbox"/> POP3 (110)	<input type="checkbox"/> IMAP4 (143)	<input type="checkbox"/> NNTP (123)	<input type="checkbox"/> N (137)
	<input type="checkbox"/> RMP (161/162)	<input type="checkbox"/> HTTPS (443)	<input type="checkbox"/> XRD_RDP (3389)	<input type="checkbox"/> BOOTP_DHCP (67/68)	<input type="checkbox"/> User_Define_1	<input type="checkbox"/> User_Define_2	<input type="checkbox"/> User_Define_3	<input type="checkbox"/> User_Define_4	<input type="checkbox"/> User_Define_5	<input type="checkbox"/> User_Define_6	<input type="checkbox"/> User_Define_7
Secure WAN port	<input type="checkbox"/> Port1	<input type="checkbox"/> Port2	<input type="checkbox"/> Port3	<input type="checkbox"/> Port4	<input type="checkbox"/> Port5	<input type="checkbox"/> Port6	<input type="checkbox"/> Port7	<input type="checkbox"/> Port8	<input type="checkbox"/> Port9	<input type="checkbox"/> Port10	<input type="checkbox"/> Port11
	<input type="checkbox"/> Port12	<input type="checkbox"/> Port13	<input type="checkbox"/> Port14	<input type="checkbox"/> Port15	<input type="checkbox"/> Port16	<input type="checkbox"/> Port17	<input type="checkbox"/> Port18	<input type="checkbox"/> Port19	<input type="checkbox"/> Port20	<input type="checkbox"/> Port21	<input type="checkbox"/> Port22
	<input type="checkbox"/> 25	<input type="checkbox"/> 26									

Update

Note: The description of Secure WAN port is shown below:

Example: Set the secure WAN port at P5

You can enable or disable this function of per port.

If the “Function Enable” is “Enable”, please kindly check the following setting:

1. “Port Filtering Rule” –

Deny: the outgoing packets to the selected port with selected protocol will be dropped and other protocols will be forwarded.

Allow: the selected protocol will be forwarded and other protocol will be dropped.

2. Protocol – choose protocols which you want.

3. Secure WAN Port– choose secure ports which you want.

****Note 1:**

- a. The secure WAN port should be set at the physical port which is connected to the server.
- b. Once this function is enabled, the switch will check the destination TCP/UTP port number at the outgoing direction of the secure WAN port.

If the condition matches, this packet will be dropped or forwarded.

****Note 2:** The description of Secure WAN port is shown on the bottom of this screen.

4. Click “Update” to confirm and finish the setting.

Now, the setting of “TCP/UDP Filter Configuration” is finished.

Spanning Tree: STP Bridge Settings

24Port 10/100 + 2Port Giga WebSwitch

STP Bridge Settings

STP Bridge Status				
STP Mode	Bridge Priority	Hello Time	Max Age	Forward Delay
	(0-61440)	(0-10 Sec)	(6-40 Sec)	(4-30 Sec)
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="Submit"/>				

(Note: 2*(Forward Delay-1) >= Max Age
(Max Age >= 2*(Hello Time+1))

STP Bridge Status					
STP Mode	Bridge ID	Hello Time	Max Age	Forward Delay	Root ID
RSTP	22788: 10 F0 13 F0 18 26	2	20	15	I'm the root bridge!

This setting is to avoid the loop network.

1. Select the “STP Mode”- choose “Disable”, “STP” or “RSTP”
2. Set the “Bridge Priority” – Set the priority of the Bridge
3. Set the period of “Hello Time” packet – Provides the time period between root bridge configuration messages.
4. Set the “Max Age” – Indicates when the current configuration message should be deleted.
5. Set the “Forward Delay” time – Provides the length of time that bridges should wait before transitioning to a new state after a topology change. (If a bridge transitions too soon, not all network links might be ready to change their state, and loops can result.)
6. Click “Submit” to confirm and finish the setting.

Now, the setting of “STP Bridge Settings” is finished.

Spanning Tree: STP Port Settings

24Port 10/100 + 2Port Giga WebSwitch

2 4 6 8 10 12 14 16 18 20 22 24

1 3 5 7 9 11 13 15 17 19 21 23

25 26

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> QoS Setting

> Security

> Spanning Tree

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> Backup/Recovery

> Miscellaneous

> Logout

STP Port Settings

STP Port Settings

RPC

Port No.

Priority

(0-240)

(1-20000000)

0=AUTO

Subnet

STP Port Status

Port No.	RPC	Priority	State	Status	Designated Bridge	Designated Port
1	Auto 0	0x00	--	Disable	--	--
2	Auto 0	0x00	--	Disable	--	--
3	Auto 0	0x00	--	Disable	--	--
4	Auto 0	0x00	--	Disable	--	--
5	Auto 0	0x00	--	Disable	--	--
6	Auto 0	0x00	--	Disable	--	--
7	Auto 0	0x00	--	Disable	--	--
8	Auto 0	0x00	--	Disable	--	--
9	Auto 0	0x00	--	Disable	--	--
10	Auto 0	0x00	--	Disable	--	--
11	Auto 0	0x00	--	Disable	--	--
12	Auto 0	0x00	--	Disable	--	--
13	Auto 0	0x00	--	Disable	--	--
14	Auto 0	0x00	--	Disable	--	--
15	Auto 0	0x00	--	Disable	--	--
16	Auto 200000	0x00	Designated Port	Forwarding	--	--
17	Auto 0	0x00	--	Disable	--	--
18	Auto 0	0x00	--	Disable	--	--
19	Auto 0	0x00	--	Disable	--	--
20	Auto 0	0x00	--	Disable	--	--
21	Auto 0	0x00	--	Disable	--	--
22	Auto 0	0x00	--	Disable	--	--
23	Auto 0	0x00	--	Disable	--	--
24	Auto 0	0x00	--	Disable	--	--
25	Auto 0	0x00	--	Disable	--	--
26	Auto 0	0x00	--	Disable	--	--

1. Choose “Port No.” : Port 1 ~ Port 26
2. Choose “Priority”: 0~ 240
3. “RPC” = Root Path Cost: 0 = AUTO. When the loop is found, the STP/RSTP will calculate the cost of its path.

Trunk Setting: Trunk Configuration

24Port 10/100 + 2Port Giga WebSwitch

Trunking

System Priority: 1 (1-65535)

Link Aggregation Algorithm: MAC SubEri

Submit

Refresh

Member	Link Group 1				Link Group 2				Link Group 3	
	P1	P2	P3	P4	P5	P6	P7	P8	P25	P26
State	Enable	Enable	Enable	Enable	Enable	Enable	Enable	Enable	Enable	Enable
Type	LACP	LACP	LACP	LACP	LACP	LACP	LACP	LACP	LACP	LACP
Operation Key	1	1	1	1	2	2	2	2	3	3
Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out	Short Time Out
Activity	Passive	Passive	Passive	Passive	Passive	Passive	Passive	Passive	Passive	Passive

Submit

There are two groups to choose and each group is 4 ports and the third group is for 2 ports.

Click “Submit” to confirm and finish the setting.

“State” – Enable / Disable

“Type” – LACP/ Static

“Activity” – Active/Passive: **Both switches use “LACP” to configure the Trunk, at least one of them should be “Active”.**

Configuration Backup/Recovery

24Port 10/100 + 2Port Giga WebSwitch

Configuration Backup/Recovery

Backup(Switch→PC)

Please check "Download" to download EEPROM contents.

Recovery(PC→Switch)

Select the image file :

Password:

Left Sidebar Menu:

- > Administrator
- > Port Management
- > VLAN Setting
- > Per Port Counter
- > QoS Setting
- > Security
- > Spanning Tree
- > Trunking
- > Backup/Recovery
- > Miscellaneous
- > Logout

Follow the instruction on the screen to update the original setting.

“Backup” - Click “Download” to confirm the setting.

“Recovery” – selects a file and key in the password → Click
“Update” to confirm the setting.

Miscellaneous: Miscellaneous Setting

24Port 10/100 + 2Port Giga WebSwitch

2 4 6 8 10 12 14 16 18 20 22 24
1 3 5 7 9 11 13 15 17 19 21 23
25 26

> Administrator

> Port Management

> VLAN Setting

> Per Port Config

> QoS Setting

> Security

> Spanning Tree

> Trunking

> Backup/Recovery

> Miscellaneous

> Logout

Miscellaneous Setting

Output Queue Aging Time

Aging time
Disable

The output queue aging function allows the administrator to select the aging time of a packet stored in the output queue. A packet stored in the output queue for a long time will lower the free packet buffer, resulting in the poor utilization of the buffer and the poor switch performance.

VLAN Striding

VLAN Striding
Disable

When this function is enabled, the switch will forward a uni-cast packet to the destination port. No matter whether the destination port is in the same VLAN group.

IGMP Snooping V1 & V2

IGMP Snooping
Disable

IGMP Snooping V1 & V2 function enable

VLAN Uplink Setting

Port 01 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 02 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 03 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 04 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 05 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 06 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 07 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 08 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 09 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 10 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 11 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 12 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 13 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2
Port 14 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 15 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 16 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 17 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 18 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 19 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 20 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 21 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 22 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 23 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 24 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 25 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2	Port 26 <input type="radio"/> Uplink1 <input type="radio"/> Uplink2

☐ Clear Uplink1
☐ Clear Uplink2

1. “Aging Time” - You can set queue aging time into different milliseconds or disable this function.
2. “VLAN Striding” – You can enable/disable this function.
3. “IGMP Snooping V1 & V2” – You can enable/disable this function.
4. “VLAN Uplink Setting” – Set “uplink1 or uplink2” or “Clear uplink1” or “Clear uplink2”
5. Click “Update” to confirm and finish the setting.

Logout: You can click “Logout” to logout.

When you forgot your IP or password, please use the reset button for the factory default setting?

Please take the following steps to reset the Web Smart Switch back to the original default:

Step 1:

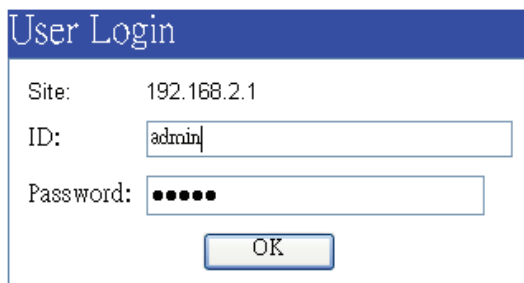
Turn on the Web Smart Switch

Step 2:

Press and hold the reset button continuously for 5 seconds and release the reset button.

Step 3:

The switch will reboot for 20 seconds and the configuration of switch will back to the default setting.



A screenshot of a 'User Login' dialog box. The title bar is blue with the text 'User Login' in white. The dialog box has a white background and a blue border. It contains three labels: 'Site:', 'ID:', and 'Password:'. The 'Site:' label is followed by the text '192.168.2.1'. The 'ID:' label is followed by a text input field containing the text 'admin'. The 'Password:' label is followed by a password input field with six black dots. Below the input fields is a blue button with the text 'OK' in white.

User Login	
Site:	192.168.2.1
ID:	<input type="text" value="admin"/>
Password:	<input type="password" value="••••••"/>
<input type="button" value="OK"/>	

Key in the user ID and the password to pass the authentication; the user ID and the password are “admin”

IP: 192.168.2.1

ID: admin

Password: admin